

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

P.C 00-	LEWSKA D. Box 61 950 Wars LOGNE	3,		PCT 2 126 2014  WRITTEN OPINION (PCT Rule 66)			
' '							
				Date of mailing (day/month/year)	21.06.2004		
Appl	icant's or a	gent's file reference		REPLY DUE	within 3 month(s)		
AN	-1010/90	1.961		REPLI DUE	from the above date of mailing		
l .	national ap	plication No. 0040	International filing date (c	day/month/year)	Priority date (day/month/year) 26.06.2002		
I		tent Classification (IPC) or	both national classification	and IPC		_	
C30	B9/00						
	icant	D 700			•		
AM		P. Z.O.O.					
1.	This writ	ten opinion is the <b>seco</b> l	nd drawn up by this Inte	ernational Preliminary	Examining Authority.		
2.	This opinion contains indications relating to the following items:						
	⊠	Basis of the opinion					
	II 🗆	Priority					
	111.		•	novelty, inventive ster	and industrial applicability		
	IV 🗆	Lack of unity of inver					
	V ⊠		under Rule 66.2(a)(ii) wations supporting such s		inventive step or industrial applicability;		
	VI 🗆	Certain documents c					
	VII 🗆	Certain defects in the	e international applicatio	n			
	VIII 🗆	Certain observations on the international application					
3.	The applicant is hereby invited to reply to this opinion.						
	When? See the time limit indi		ated above. The applicant no grant an extension, see R		n of that time limit,		
	How?		By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.				
	For the examiner's		tunity to submit amendmen gation to consider amendm nication with the examiner,	ents and/or arguments,	see Rule 66.4 bis.		
	If no rep	ly is filed, the international	proliminant examination re	nort will be established	on the basis of this opinion		
l			premimary examination re	port will be established	on the basis of this opinion.		

Name and mailing address of the international preliminary examining authority:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas . Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 **Authorized Officer** 

Cook, S

Formalities officer (incl. extension of time limits) Delmon, G Telephone No. +31 70 340-2525



<ol> <li>Basis of the o</li> </ol>	nia	ion
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1.	With regard to the <b>elements</b> of the international application (Replacement sheets which have been furnished the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"):	to
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	Des	scription, Pages					
	1-2	8	as originally filed				
	Cla	ims, Numbers					
	1-3	0	as originally filed				
	Dra	wings, Sheets					
	1/8-	8/8	as originally filed				
2.	With lang	With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.					
	The	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of publ	inslation furnished for the purposes of the international search (under Rule 23.1(b)). ication of the international application (under Rule 48.3(b)). anslation furnished for the purposes of international preliminary examination (under 3).				
<b>3.</b>	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
		furnished subsequer	ntly to this Authority in computer readable form.				
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that to listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This opinion has been been considered to	en established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
6	Δdc	litional observations	if nacessans				

## WRITTEN OPINION

International application No.

PCT/PL 03/00040

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims

21-25

Inventive step (IS)

Claims

Industrial applicability (IA)

Claims

2. Citations and explanations

see separate sheet

## WRITTEN OPINION SEPARATE SHEET



Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: FR-A-2 796 657 (THOMSON CSF) 26 January 2001 (2001-01-26)

Taking note of the fact that D1 does not teach a crystal growth process involving group I element azides as a mineralizer to assist the transport and growth process of gallium containing nitride monocrystals under supercritical conditions, novelty of the subject matter describing the process in claims 1-20 is recognised.

Concerning the independent "product" claim 21, independent "use" claim 22 and independent "product" claim 25 the following opinion is reached with regard to novelty.

The subject matter of "product" claim 21 defines a bulk gallium-containing nitride monocrystal as such without any characterizing features. Such a monocrystal cannot be considered a novel product since D1 (see claims 21,22) and other prior art teach also bulk gallium-containing nitride monocrystals.

Since it is implicit from D1 (see p.1, lines 4-13) that such monocrystals are used as substrates for epitaxial growth in device (e.g. LED's) fabrication, the subject matter of the "use" claims 22-24 is not novel with regard to the prior art.

Independent claim 25 is also drafted as a "product" claim as opposed to a "process" or "use" claim. The claimed "mineralizer" has only one technical feature and that is that it comprises one of the alkali metal azides. Since these are all known compounds (D1 discloses for example NaN<sub>3</sub>), the claimed mineralizer product *per se* cannot be considered as novel.

For these reasons, the subject matter of claims 21-25 lacks novelty and thus does not fulfill the requirements of Article 33(1) PCT in the sense of Article 33(2) PCT.

Concerning the subject matter of dependent claims 26-30, as well as the independent claim 25 to which they refer, it is noted that the requirements of Article 6 PCT are not met. In the light of the description and independent process claim 1, these claims do not clearly define the matter for which protection is sought.